Invitation to Bid

LSUHSC-SHREVEPORT

LSU Health Sciences Center

BIDS WILL BE PUBLICLY OPENED:

June 04,2010 02:00 AM

Return Bid in Envelope/Labels Provided to:
Purchasing Department
PO Box 33932
Shreveport LA 71130

VENDOR NO. :
SOLICITATION : 005559
OPENING DATE : 06/04/2010

BUYER	: Pickens, Marianne
BUYER PHONE	: 318/675-5212
DATE ISSUED	: 05/19/2010
REQ. NO	: 0044883
FISCAL YEAR	: 2010

Furnish-Install Elevator Equip

INSTRUCTIONS TO BIDDERS

1. READ THE ENTIRE BID, INCLUDING ALL TERMS AND CONDITIONS AND SPECIFICATIONS.
2. FILL IN ALL BLANK SPACES.
3. ALL BID PRICES MUST BE TYPED OR WRITTEN IN INK. ANY CORRECTIONS, ERASURES OR OTHER FORMS OF ALTERATION TO UNIT PRICES SHOULD BE INITIALIZED BY THE BIDDER.
4. BID PRICES SHALL INCLUDE DELIVERY OF ALL ITEMS F.O.B. DESTINATION OR AS OTHERWISE PROVIDED. BIDS CONTAINING "PAYMENT IN ADVANCE" OR "C.O.D." REQUIREMENTS MAY BE REJECTED. PAYMENT IS TO BE MADE WITHIN 30 DAYS AFTER RECEIPT OF PROPERLY EXECUTED INVOICE OR DELIVERY, WHICHEVER IS LATER.
5. SPECIFY YOUR PAYMENT TERMS: _____ . CASH DISCOUNTS FOR LESS THAN 30 DAYS OR LESS THAN 1% WILL BE ACCEPTED, BUT WILL NOT BE CONSIDERED IN DETERMINING AWARDS

BY SIGNING THIS BID, THE BIDDER CERTIFIES:

* THAT NEITHER THIS BUSINESS ENTITY NOR ANY OF ITS EMPLOYEES OR SUBCONTRACTORS IS CURRENTLY LISTED AS EXCLUDED OR SANCTIONED BY EITHER THE DEPARTMENT OF HEALTH AND HUMAN SERVICES, OFFICE OF INSPECTOR GENERAL (OIG) OR THE GENERAL SERVICES ADMINISTRATION (GSA).
* THAT IF THIS BUSINESS ENTITY OR ANY OF ITS EMPLOYEES OR SUBCONTRACTORS APPEAR ON EITHER LISTING, MY BID WILL BE REJECTED.
* THAT IF AT ANY TIME DURING THE TERM OF THE CONTRACT AWARDED AS A RESULT OF THIS INVITATION TO BID, THIS ENTITY OR ANY OF ITS EMPLOYEES OR SUBCONTRACTORS APPEARS ON EITHER LISTING, MY COMPANY WILL NOTIFY THE CONTRACTING AGENCY, AND THE CONTRACT WILL BE TERMINATED. THE CONTRACTING AGENCY WILL NOT BE LIABLE FOR ANY DAMAGES RESULTING FROM SAID TERMINATION.

THE BIDDER FURTHER CERTIFIES:

* COMPLIANCE WITH ALL INSTRUCTIONS TO BIDDERS, TERMS, CONDITIONS, AND SPECIFICATIONS.
* THIS BID IS MADE WITHOUT COLLUSION OR FRAUD.
* THAT ALL TAXES DULY ASSESSED BY THE STATE OF LOUISIANA AND IT'S SUBDIVISIONS, INCLUDING FRANCHISE TAXES, PRIVILEGE TAXES, SALES TAXES AND ALL OTHER TAXES FOR WHICH THE FIRM IS LIABLE HAVE BEEN PAID.
* THAT IF MY BID IS ACCEPTED WITHIN _____ DAYS FROM BID CLOSING TIME, MY FIRM WILL FURNISH ANY OR ALL OF THE ITEMS (OR SECTIONS) AT THE PRICE OPPOSITE EACH ITEM (OR SECTION).
* DELIVERY WILL BE MADE WITHIN _____ DAYS AFTER RECEIPT OF ORDER.

VENDOR PHONE NUMBER: FAX NUMBER:	TITLE	DATE
SIGNATURE OF AUTHORIZED BIDDER (MUST BE SIGNED)	NAME OF BIDDER (TYPED OR PRINTED)	

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6. DESIRED DELIVERY: 10 DAYS ARO, UNLESS SPECIFIED ELSEWHERE
7. TO ASSURE CONSIDERATION, ALL BIDS SHOULD BE SUBMITTED IN THE SPECIAL ENVELOPE, OR USE BID LABEL IF FURNISHED FOR THAT PURPOSE. IN THE EVENT YOUR BID CONTAINS BULKY SUBJECT MATERIAL, THE SPECIAL BID ENVELOPE SHOULD BE FIRMLY AFFIXED TO THE MAILING ENVELOPE.
8. BIDS SUBMITTED ARE SUBJECT TO PROVISIONS OF THE LAWS OF THE STATE OF LOUISIANA INCLUDING BUT NOT LIMITED TO L.R.S. 39:1551-1736; PURCHASING RULES AND REGULATIONS; EXECUTIVE ORDERS; STANDARD TERMS AND CONDITIONS;SPECIAL CONDITIONS; AND SPECIFICATIONS LISTED IN THIS SOLICITATION.
9. IMPORTANT: THIS BID IS TO BE MANUALLY SIGNED IN INK BY A PERSON AUTHORIZED TO BIND THE VENDOR (SEE NO.31).
10. INQUIRIES: ADDRESS ALL INQUIRIES AND CORRESPONDENCE TO THE BUYER AT THE PHONE NUMBER AND ADDRESS SHOWN ABOVE.
11. BID FORMS: ALL WRITTEN BIDS, UNLESS OTHERWISE PROVIDED FOR, SHOULD BE SUBMITTED ON, AND IN ACCORDANCE WITH FORMS PROVIDED, PROPERLY SIGNED (SEE #31). BIDS MUST BE RECEIVED AT THE ADDRESS SPECIFIED IN THE SOLICITATION PRIOR TO BID OPENING TIME IN ORDER TO BE CONSIDERED.
12. STANDARDS OR QUALITY. ANY PRODUCT OR SERVICE BID SHALL CONFORM TO ALL APPLICABLE FEDERAL AND STATE LAWS AND REGULATIONS AND THE SPECIFICATIONS CONTAINED IN THE SOLICITATION. UNLESS OTHERWISE SPECIFIED IN THE SOLICITATION, ANY MANUFACTURER'S NAME, TRADE NAME, BRAND NAME, OR CATALOG NUMBER USED IN THE SPECIFICATION IS FOR THE PURPOSE OF DESCRIBING THE STANDARD OF QUALITY, PERFORMANCE, AND CHARACTERISTICS DESIRED AND IS NOT INTENDED TO LIMIT OR RESTRICT COMPETITION. BIDDER MUST SPECIFY THE BRAND AND MODEL NUMBER OF THE PRODUCT OFFERED IN HIS/HER BID. BIDS NOT SPECIFYING BRAND AND MODEL NUMBER SHALL BE CONSIDERED AS OFFERING THE EXACT PRODUCTS SPECIFIED IN THE SOLICITATION.
13. DESCRIPTIVE INFORMATION. BIDDERS PROPOSING AN EQUIVALENT BRAND OR MODEL SHOULD SUBMIT WITH THE BID, INFORMATION (SUCH AS ILLUSTRATIONS, DESCRIPTIVE LITERATURE, TECHNICAL DATA) SUFFICIENT FOR LSUHSC TO EVALUATE QUALITY, SUITABILITY, AND COMPLIANCE WITH THE SPECIFICATIONS IN THE SOLICITATION. FAILURE TO SUBMIT DESCRIPTIVE INFORMATION MAY CAUSE BID TO BE REJECTED. ANY CHANGE MADE TO A MANUFACTURER'S PUBLISHED SPECIFICATION SUBMITTED FOR A PRODUCT SHALL BE VERIFIABLE BY THE MANUFACTURER. IF ITEM(S) BID DO NOT FULLY COMPLY WITH SPECIFICATIONS (INCLUDING BRAND AND/OR PRODUCT NUMBER), BIDDER MUST STATE IN WHAT RESPECT ITEMS(S) DEVIATE. FAILURE TO NOTE EXCEPTIONS ON THE BID FORM WILL NOT RELIEVE THE SUCCESSFU BIDDER(S) FROM SUPPLYING THE ACTUAL PRODUCTS REQUESTED.
14. BID OPENING. BIDDERS MAY ATTEND THE BID OPENING, BUT NO INFORMATION OR OPINIONS CONCERNING THE ULTIMATE CONTRACT AWARD WILL BE GIVEN AT THE BID OPENING OR DURING THE EVALUATION PROCESS. BIDS MAY BE EXAMINED WITHIN 72 HOURS AFTER BID OPENING. INFORMATION PERTAINING TO COMPLETED FILES MAY BE SECURED BY VISITING LSUHSC DURING NORMAL WORKING HOURS. WRITTEN BID TABULATIONS WILL NOT BE FURNISHED.
15. AWARDS. AWARD WILL BE MADE TO THE LOWEST RESPONSIBLE AND RESPONSIVE BIDDER. LSUHSC RESERVES THE RIGHT TO AWARD ITEMS SEPARATELY, GROUP, OR IN TOTAL, AND TO REJECT ANY OR ALL BIDS AND WAIVE ANY INFORMALITIES.
16. PRICES. UNLESS OTHERWISE SPECIFIED BY LSUHSC IN THE SOLICITATION, BID PRICES MUST BE COMPLETE, INCLUDING TRANSPORTATION PREPAID BY BIDDER TO DESTINATION AND FIRM FOR ACCEPTANCE FOR A MINIMUM OF 30 DAYS. IF ACCEPTED, PRICES MUST BE FIRM FOR THE CONTRACTUAL PERIOD. BIDS OTHER THAN F.O.B. DESTINATION MAY BE REJECTED. PRICES SHOULD BE QUOTED IN THE UNIT (EACH,

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BOX, CASE, ETC.) AS SPECIFIED IN THE SOLICITATION.

17. DELIVERIES. BIDS MAY BE REJECTED IF THE DELIVERY TIME INDICATED IS LONGER THAN THAT SPECIFIED IN THE SOLICITATION.

18. TAXES. VENDOR IS RESPONSIBLE FOR INCLUDING ALL APPLICABLE TAXES IN THE BID PRICE. LSUHSC AGENCIES ARE EXEMPT FROM ALL STATE AND LOCAL SALES AND USE TAXES.

19. NEW PRODUCTS. UNLESS SPECIFICALLY CALLED FOR IN THE SOLICITATION, ALL PRODUCTS FOR PURCHASE MUST BE NEW, NEVER PREVIOUSLY USED, AND THE CURRENT MODEL AND/OR PACKAGING. NO REMANUFACTURED, DEMONSTRATOR, USED OR IRREGULAR PRODUCT WILL BE CONSIDERED FOR PURCHASE UNLESS OTHERWISE SPECIFIED IN THE SOLICITATION. THE MANUFACTURER'S STANDARD WARRANTY WILL APPLY UNLESS OTHERWISE SPECIFIED IN THE SOLICITATION.

20. CONTRACT CANCELLATION. THE STATE OF LOUISIANA HAS THE RIGHT TO CANCEL ANY CONTRACT, IN ACCORDANCE WITH PURCHASING RULES AND REGULATIONS, FOR CAUSE INCLUDING BUT NOT LIMITED TO THE FOLLOWING: (1) FAILURE TO DELIVER WITHIN THE TIME SPECIFIED IN THE CONTRACT; (2) FAILURE OF THE PRODUCT OR SERVICE TO MEET SPECIFICATIONS, CONFORM TO SAMPLE QUALITY OR TO BE DELIVERED IN GOOD CONDITION; (3) MISREPRESENTATION BY THE CONTRACTOR; (4) FRAUD, COLLUSION CONSPIRACY OR OTHER UNLAWFUL MEANS OF OBTAINING ANY CONTRACT WITH THE STATE; (5) CONFLICT OF CONTRACT PROVISIONS WITH CONSTITUTIONAL OR STATUTORY PROVISIONS OF STATE OR FEDERAL LAW; (6) ANY OTHER BREACH OF CONTRACT.

21. DEFAULT OF CONTRACT. FAILURE TO DELIVER WITHIN THE TIME SPECIFIED IN THE BID WILL CONSTITUTE A DEFAULT AND MAY CAUSE CANCELLATION OF THE CONTRACT. WHERE THE UNIVERSITY HAS DETERMINED THE CONTRACTOR TO BE IN DEFAULT, THE UNIVERSITY RESERVES THE RIGHT TO PURCHASE AN OR ALL PRODUCTS OR SERVICES COVERED BY THE CONTRACT ON THE OPEN MARKET AND TO CHARGE THE CONTRACTOR WITH COST IN EXCESS OF THE CONTRACT PRICE. UNTIL SUCH ASSESSED CHARGES HAVE BEEN PAID, NO SUBSEQUENT BID FROM THE DEFAULTING CONTRACTOR WILL BE CONSIDERED.

22. ORDER OF PRIORITY. IN THE EVENT THERE IS A CONFLICT BETWEEN THE INSTRUCTIONS TO BIDDERS OR STANDARD CONDITIONS AND THE SPEICAL CONDITIONS, THE SPECIAL CONDITIONS SHALL GOVERN.

23. APPLICABLE LAW. ALL CONTRACTS SHALL BE CONSTRUED IN ACCORDANCE WITH AND GOVERNED BY THE LAWS OF THE STATE OF LOUISIANA.

24. EQUAL OPPORTUNITY. BY SUBMITTING AND SIGNING THIS BID, BIDDER AGREES THAT HE/SHE WILL NOT DISCRIMINATE IN THE RENDERING OF SERVICES TO AND/OR EMPLOYMENT OF INDIVIDUALS BECAUSE OF RACE, COLOR, RELIGION, SEX, AGE, NATIONAL ORIGIN, HANDICAP, DISABILITY, VETERAN STATUS, OR A OTHER NON-MERIT FACTOR.

25. SPECIAL ACCOMMODATIONS. ANY "QUALIFIED INDIVIDUAL WITH DISABILITY" AS DEFINED BY THE AMERICANS WITH DISABILITIES ACT WHO HAS SUBMITTED A BID AND DESIRES TO ATTEND THE BID OPENING, MUST NOTIFY THIS OFFICE IN WRITING NOT LATER THAN SEVEN DAYS PRIOR TO THE BID OPENING DATE OF THEIR NEED FOR SPECIAL ACCOMMODATIONS. IF THE REQUEST CANNOT BE REASONABLY PROVIDED, THE INDIVIDUAL WILL BE INFORMED PRIOR TO THE BID OPENING.

26. IDEMNITY. CONTRACTOR AGREES, UPON RECEIPT OF WRITTEN NOTICE OF A CLAIM OR ACTION, TO DEFEND THE CLAIM OR ACTION, OR TAKE OTHER APPROPRIATE MEASURE, TO IDEMNIFY, AND HOLD HARMLESS, LSUHSC, ITS OFFICERS, ITS AGENTS AND ITS EMPLOYEES FROM AND AGAINST ALL CLAIMS AND ACTIONS FOR BODILY INJURY, DEATH OR PROPERTY DAMAGES CAUSED BY THE FAULT OF THE CONTRACTOR,

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OFFICERS, ITS AGENTS, OR ITS EMPLOYEES. CONTRACTOR IS OBLIGATED TO INDEMNIFY ONLY TO THE EXTENT OF THE FAULT OF THE CONTRACTOR, ITS OFFICERS, ITS AGENTS, OR ITS EMPLOYEES. HOWEVER, THE CONTRACTOR SHALL HAVE NO OBLIGATION AS SET FORTH ABOVE WITH RESPECT TO ANY CLAIM OR ACTION FROM BODILY INJURY, DEATH OR PROPERTY DAMAGES ARISING OUT OF THE FAULT OF THE UNIVERSITY, ITS OFFICERS, ITS AGENTS OR ITS EMPLOYEES.

27. INTERPRETATION OF DOCUMENT: ANY INTERPRETATION OF THE BID OR QUOTATION DOCUMENT WILL ONLY BE MADE BY AN ADDENDUM ISSUED IN WRITING BY THE PURCHASING DEPARTMENT. SUCH ADDENDUM WILL BE MAILED OR DELIVERED TO EACH PERSON RECEIVING A SET OF THE ORIGINAL BID OR QUOTATION DOCUMENTS. LSUHSC WILL NOT BE RESPONSIBLE FOR ANY OTHER EXPLANATION OR INTERPRETATION OF THE DOCUMENTS.

28. ACCEPTANCE OF BID: ONLY THE ISSUANCE OF A PURCHASE ORDER OR A SIGNED CONTRACT CONSTITUTES ACCEPTANCE ON THE PART OF LSUHSC.

29. ADHERENCE TO JCAHO STANDARDS: WHERE APPLICABLE, LSUHSC IS ACCREDITED BY THE JOINT COMMISSION ON ACCREDITATION OF HEALTHCARE ORGANIZATIONS AND AS SUCH ALL CONTRACTORS, SUBCONTRACTORS, AND VENDORS AGREE TO ADHERE TO THE APPLICABLE STANDARDS PROMULGATED BY THE COMMISSION.

30. PREFERENCE: IN ACCORDANCE WITH LOUISIANA REVISED STATUTES 39:1595, A PREFERENCE MAY BE ALLOWED FOR PRODUCTS MANUFACTURED, PRODUCED, GROWN, OR ASSEMBLED IN LOUISIANA OF EQUAL QUALITY. DO YOU CLAIM THIS PREFERENCE? YES _____ NO_____

SPECIFY THE LINE NUMBER (S) _____

SPECIFY LOCATION WITHIN LOUISIANA WHERE THIS PRODUCT IS MANUFACTURED, PRODUCED, GROWN OR ASSEMBLED _____

(NOTE: IF MORE SPACE IS REQUIRED, INCLUDE ON SEPARATE SHEET.)

DO YOU HAVE A LOUISIANA BUSNIESS WORK FORCE? YES _____ NO _____

IF SO, DO YOU CERTIFY THAT AT LEAST FIFTY PERCENT (50%) OF YOUR LOUISIANA WORKFORCE IS COMPRISED OF LOUISIANA RESIDENTS?

YES_____ NO_____

FAILURE TO SPECIFY ABOVE INFORMATION MAY CAUSE ELIMINATION FROM PREFERENCES. PREFERENCES SHALL NOT APPLY TO SERVICE CONTRACTS.

31. SIGNATURE AUTHORITY. IN ACCORDANCE WITH L.R.S. 39:1594 (ACT 121), THE PERSON SIGNING THE BID MUST BE:

31.1. A CURRENT CORPORATE OFFICER, PARTNERSHIP MEMBER OR OTHER INDIVIDUAL SPECIFICALLY AUTHORIZED TO SUBMIT A BID AS REFLECTED IN THE APPROPRIATE RECORDS ON FILE WITH THE SECRETARY OF STATE; OR

31.2. AN INDIVIDUAL AUTHORIZED TO BIND THE VENDOR AS REFLECTED BY AN ACCOMPANYING CORPORATE RESOLUTION, CERTIFICATE OR AFFIDAVIT; OR

31.3. AN INDIVIDUAL LISTED ON THE STATE OF LOUISIANA BIDDER'S APPLICATION AS AUTHORIZED TO EXECUTE BIDS. BY SIGNING THE BID, THE BIDDER CERTIFIES COMPLIANCE WITH THE ABOVE.

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SPECIAL TERMS & CONDITIONS	
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Compliance with Louisiana Act 113 of 1964 as amended: Licensed contractors may obtain plans and specifications at the Purchasing Office, LSU Health Sciences Center in Shreveport, LA. Any contractor submitting a bid of fifty thousand dollars ($50,000) or more shall certify that he is licensed under Louisiana Act 113 of 1964 as amended, and shall show his license number on the bid form and on the outside of the envelope in which the bid is submitted.

Invitation to Bid

PRICE SHEET

NUMBER : 005559
OPEN DATE : 06/04/2010 TIME: 02:00 AM

BIDDER:

UNLESS SPECIFIED ELSEWHERE SHIP TO:

1501 Kings Highway
Shreveport LA 71130

Line No.	Description			Unit Price	Extended Amount
1	Furnish and Install Elevator Equipment in the Administration Building, per attached specifications. Specify brand, model bid(if applicable) _____	1.00	LOT	_____	_____

Louisiana State University Health Sciences Center – Shreveport
Administration Building Elevator Equipment
May 2010

GENERAL

Scope

Furnish new equipment as listed herein and as necessary to incorporate listed upgrades to Louisiana State University Health Sciences Center elevator EL1 as specified and as required to satisfy criteria established by the Americans with Disabilities Act. Equipment to be furnished as specified, applies to the above listed elevator as applicable to the accepted line items one (1) through four (4) below except where features are specifically excluded. All equipment is to be installed by the successful Vendor. Work must be properly coordinated so that the building will not be without elevator service.

EL 1 is a traction elevator. The car will be reused but refurbished.

Line Items

Vendor shall provide itemized pricing for the following:

1. All equipment and installation for elevator EL 1.

2. Voice annunciation EL1.

3. New hall doors to be provided at all landings. Door cladding shall be #4 brushed 302/304 stainless. Doors to be 1 1/2 hour fire rating.

4. Monthly charge for maintenance for elevator EL 1 will be suspended for duration of project and one year warranty period.

Preparation of Bids

Prices quoted shall include all items of cost, expense, fees and charges incurred or arising out of the furnishing of equipment and installation work to be performed under the Contact. Any bid on other than the required form will be considered informal and may be rejected. Erasure or changes in the bid should be explained or noted over the initials of the bidder.

Bids containing any conditions, omissions, unexplained erasures, alterations, or irregularities of any kind may be rejected. Failure to submit all requested information will make the bid irregular and subject to rejection.

Inspection of Site

Those bidding may visit the site, verify all existing items and familiarize themselves with the working conditions, hazards, actual formations, and obstacles. All proposals shall take these existing conditions into consideration. Inspection of site visit may be arranged for by calling the office of Physical Plant 318-675-6300.

PRODUCTS

Acceptable Manufacturers

A. Subject to compliance with requirements, provide products of one of the following manufacturers or approved equivalent:

1. Schindler Elevator Corporation
2. Otis Elevator Company
3. ThyssenKrupp Elevator Company

Manufactured Products

A. Materials, devices, and equipment furnished shall be of current production by manufacturers regularly engaged in the manufacture of such items.

B. Manufacturers of equipment assemblies which include components made by others shall assume complete responsibility for the final assembled unit.

C. Motor nameplates shall state rated horsepower, speed, volts, amperes and other characteristics required by NEMA Standards and shall be securely attached to the item of equipment in a conspicuous location.

D. The elevator equipment, including controllers, selectors, door operations, relay panels, and group supervisory system, shall be the product of one manufacturer of established reputation provided such items are capably engineered and produced under coordinated specifications to insure a first class, safe and smooth operating system.

E. Where key-operated switches and/or key-operated cylinder locks are furnished in conjunction with any component of this elevator installation, furnish two keys for each individual switch or lock. Barrel keys or switches are not acceptable. Attach each key to a tag bearing a stamped or etched legend identifying its purpose. Fireman's recall shall comply with the State Fire Marshal proprietary keying requirements.

ELEVATOR EQUIPMENT

Hoistway Equipment

A. Hall call buttons - Provide ADA and code compliant, vandal resistant, LED lamp type hall call stations. New fixtures to be Flush Mounted in #4 302/304 Stainless Steel. Faceplates shall be extended as required to cover the existing holes. Vendor shall exercise extreme care when cutting existing finishes for installation of lowered fixtures. The Owner will repair wall finishes incidental to fixture relocation.

B. Door Hardware - Hoistway door hardware including hangers, rollers, interlocks, closers, gibs, operator and related devices will be removed and replaced..

C. Replace hall doors.

D. Hall lanterns - Vendor shall furnish new hall lantern fixtures. New units shall meet ADA criteria, be equipped with dual chime feature and LED lamps

E. Braille - Braille markings on elevators EL 1 appear to be ADA compliant. However, Vendor should verify this before bidding. Where existing markings are non existent or do not meet ADA recommendations, new tactile markings shall be installed on both sides of each hoistway entrance for all elevators. These markings shall have raised and braille floor designations, and they will be mounted at a height of 60 inches above finished floor, centerline. The markings will be #4 Stainless Steel finished on black background. Markings shall be attached with rivets, tamper proof screws, or some other mechanical method that impedes removal. Adhesive attached markings shall not be acceptable.

F. Position indicators - Provide a new position indicator for elevator EL 1. New unit shall be installed at the first floor. New unit to be dot matrix LED type. Existing enclosures shall be closed or covered with #4 stainless to match the existing finish.

G. HOISTWAY ACCESS SWITCHES. Shall conform to ASME A17.1 - 2.12.7 Hoistway Access Switches shall be provided at the lowest landing for access to the pit, when a separate pit access door is not provided; and the top landing for access to the top of the car.

Hoistway Door Unlocking Device: Provide unlocking device with escutcheon in door panel at all floors, with finish to match adjacent surface.
Hoistway Access Switches: Mount in wall at top and bottom floors. Provide switch with faceplate.

Car Equipment

A. Doors - replace all car doors including auxiliary equipment as listed below. New doors shall be clad with #4 brushed stainless.

B. Door Auxiliary Equipment - replace car door related equipment, including header, interlocks, door closers, door hangers, gibs and tracks, door restrictors, and door clutches.

All necessary changes to the elevator controller and door operator to accommodate the new door opening device and comply with the 199 ASME A17.1 and ASME A17.3 shall be included.

C. Door Operators - All car door operators shall be replaced with heavy duty 3 foot per second operators that meet current A17 codes. Door operators to utilize solid state, closed loop servo control to maintain a constant door closing force within current standards for passenger safety.

D. Door safety edges - shall be provided with a reopening device that will stop and reopen the car door and hoistway door automatically if the door becomes obstructed by an object or person. The device shall be capable of completing these operations without requiring contact for an obstruction passing through the opening. The device shall be a non-reflective through beam system with a minimum of forty sensors per edge. It shall have a minimum sensor spacing of 1.8" or less. It shall incorporate a microprocessor controlled fail-safe system. It shall be capable of self adjustment to compensate for varying environmental conditions. Sensor units on elevators may be reused at the Vendor's option but shall carry the same warranty as new.

E. Car Station - Provide a new main car station. All control buttons will be designated by braille and by raised standard characters. All buttons will be provided with visual signals that illuminate when a car call registered and extinguish when call is answered. Button size shall be vandal resistant and a minimum of 3/4" in the smallest dimension. Emergency stop shall be key operated, not push-button. In addition, the new car station will be equipped with an emergency light. The new car station will be mounted so that all buttons used by passengers will be between 35 and 48 inches from the finished floor. Floor passing chimes to be synchronized with existing car position indicators. The new stations will be in #4 stainless steel. New ADA phones will be furnished provided quality and function to match existing. Buttons and switches that are keyed to the existing LSUHSC keyway system in the existing car station shall be keyed to the same key in the new station, with the exception of the fireman recall.

F. Position indicators - Provide new ADA compliant position indicators in car. New unit shall be installed in same location as existing overhead unit. New unit to be dot matrix LED type. The unused portion of the existing shall be closed or covered with #4 stainless to match the existing car finish.

G. Handrails – Install new handrails to meet ADA and ASME 17 recommendations..

TRACTION ELEVATOR – EL 1

Capacity, Speed, Travel

A. Elevator shall have the capacity to lift a live load (exclusive of the weight of the car and cables) at the speed in feet per minute as specified in the following schedule:

ELEVATOR SCHEDULE	
Elevator Number	EL 1
Overall Platform Size	Existing
Rated Load - (pounds)	2500#
Rated Speed - (fpm)	350 FPM
Total Travel - (fpm)	Existing
Number of Stops	Seven (7)
Number of Openings	Seven (7)
Type of Roping	1:1
Entrance Type & Size	existing

B. Rated speed shall mean speed in either direction of travel with rated capacity load or no load on the car. Actual speed, under any load condition shall not vary more than three (3) percent of rated speed.

Machine Room Equipment

A. Controller shall be microprocessor type. Each bank shall be equipped with monitor and software required for normal control setup, modification, diagnostics and monitoring. In addition to normal control schemes, logic shall be provided for fireman's service, emergency power service, and fire alarm system lobby smoke detection logic. Electronics shall be rated for continuous operation in 90 degree F environment. A manufacturer's proprietary control system is not acceptable. The vendor will provide a generic control manufactured by Motion Control (MCE).

The microprocessor shall analyze all information gathered by the system including hall calls, car calls, speed of cars in transit, load weight, potential arrival time and dispatch the call to the car that can respond in the shortest time. Door operation control shall be intelligent, shortening delay times for discharge only, and starting to close door as soon as car station button is pushed.

Position selector shall be part of the microprocessor system. The car position in the hoistway shall be digitized through a primary position encoder. The microprocessor control system shall store the floor position and slowdown points in memory.

The drive control system shall be a dual-loop feedback system based primarily on car position. The velocity profile shall be calculated by the microprocessor control system producing extremely smooth and accurate stops. The velocity encoder shall permit continuous comparison of machine speed to velocity profile and to actual car

speed. This feedback shall permit a fast and accurate control of acceleration and retardation.

The load weight analysis shall cause hall calls to be skipped and reassigned when car is loaded to near capacity. The device shall be unaffected by the action of compensating chain or rope. The load sensor shall use a linear variable differential transformer to accurately measure the weight in the car. This information shall be transferred via a serial link to the elevator controller. The device shall detect a 15 pound load change.

The microprocessor control system shall evaluate the number of people on the car and compare that value to the number of car calls registered. If the number of car calls, exceed the number of people by a field programmable value, the car calls shall be canceled after the first call has been answered.

All operational, parameter setting and diagnostic software and associated hardware required for installation, operation and or maintenance shall be furnished and shall become property of the Owner. Complete instructions shall be provided. Except for common tools and diagnostic instruments such as volt-ohm meters or oscilloscopes, the furnished software and hardware shall be the only trouble shooting equipment allowed during installation and warranty period. Any upgrades or additional microprocessor interface software or hardware used through the warranty period shall be turned over to the Owner prior to use by the Vendor.

It is anticipated that an environmentally controlled enclosure may be needed for protection of electronic equipment. Location and arrangement of all components that require environmental conditioning shall be coordinated with the Owner before placement in order to minimize the future difficulties of engineering such an enclosure. Shop drawings shall be submitted for approval for location of all equipment requiring environmental control.

B. All generators to be removed. New power drive systems to be completely solid state. Electronics shall be rated for continuous operation in 90 degree F environment.

C. Geared machine drive motors to be replaced with new AC drive motors and variable voltage and frequency drives. Motors shall be rated for use with variable voltage and frequency drives. Motor shall be totally enclosed, not-ventilated, with Class "F" insulation. Armature shall be dynamically balanced and supported by ball bearings of ample capacity.

AC drives shall be vector controlled pulse-width modulated. The variable voltage, variable frequency drive shall convert the AC power supply using a two step process to a VVVF supply for use by the hoist motor. The speed control shall be by means of vector control providing independent excitation and torque current. A digital velocity encoder shall be provided on the motor giving feedback to the controller on motor speed and position.

D. Governor to be replaced.

E. Emergency power interface - Elevator shall be equipped with wiring and microprocessor logic to enact emergency power operation. Upon restoration of normal power, all elevators shall automatically resume normal service

Power Supply

A. For power supply in electrical machine room, electrical feeders will be provided by the Owner. Elevator contractor will submit a written request specifying power required.

B. It shall be the responsibility of the Owner for electrical work to supply the labor and materials for installation of the following:

1. A feeder, originating from the source indicated on the drawings, to each elevator controller.
2. A shunt trip circuit breaker for each controller located in the elevator machine room. Shall be lockable in the "Off" position.

C. In single installations, provide circuit protection for signal system incorporated in shunt trip circuit breaker or power controller.

D. An emergency power feeder for lighting and fan to the control cabinet.

E. Dedicated phone line.

F. Fire alarm recall.

Grounding

Provide equipment grounding. Ground conductors, supports, controller enclosure, motors, platform and car frames, and other non-current conducting metal enclosures for electrical equipment in accordance with NEC2008. The ground wires shall be copper, insulated and sized as required by NEC2008. Bond the grounding wires to each of the pull boxes, junction boxes, cabinets and other enclosures through which the wires pass.

Conductors

A. Unless otherwise specified, conductors, exclusive of traveling cables, shall be stranded or solid coated annealed copper in accordance with Fed. Spec. J-C-30 for either Type RHW or THW. Where 16 and 18 AGW are permitted by NEC, either single conductor cable in accordance with Fed. Spec. J-C-580 for Type TF, or multiple conductor cable, may be used provided the insulation of single conductor cable and outer jacket of multiple conductor cable is flame retardant and moisture resistant. Multiple conductor cable shall have color coding or other suitable identification for each conductor. Conductors for control boards shall be in accordance with NEC. Permit no joints or splices in wiring except at outlets. Tap connectors may be used in wire-ways provided they meet all UL requirements.

B. All wiring must test free from short circuits or grounds. Insulation resistance between individual external conductors and between conductors and ground shall be not less than one megohm.

C. Where size of conductors is not given, capacity shall be such that maximum current shall not exceed limits prescribed by NEC.

D. Provide equipment grounding. Ground conduits, supports, other non-current conducting metal enclosures for electrical equipment in accordance with NEC. The ground wires shall be copper, green, insulated and sized as required by NEC. Bond the grounding wires to all junction boxes, cabinets, and wire raceways.

Traveling Cables

A. All conductors to the car shall consist of the new flexible traveling cables conforming with the requirements of NEC. Traveling cables shall run from the junction box on the car to a junction box at midway of the hoistway or directly to controller. Junction boxes in hoistway and on car shall be equipped with terminal blocks. Terminal blocks having pressure wire connectors of the clamp type that meet UL 486A requirements for stranded wire may be used in lieu of terminal eyelet connections. Terminal blocks shall have permanent indelible identifying numbers for each connection. Cables shall be securely anchored to avoid strain on individual terminal connections. Flame and moisture resistant outer covering must remain intact between junction boxes. Abrupt bending, twisting and/or distortion of the cables shall not be permitted.

B. Provide spare conductors equal to 10 percent of the total number of conductors furnished, but not less than five (5) spare conductors in each traveling cable.

C. Provide shielded traveling cable wire for the auto dial system within the traveling cable.

D. If, due to sway or change in relative position of traveling cables, complete freedom from contact with the hoistway or elevator construction cannot be obtained, provide shields or pads on the elevator or hoistway structure wherever necessary to prevent damage to the traveling cables.

Microprocessor Control System

A. The Contractor shall, provide solid state components and printed circuit boards to control the hoisting machine and signal functions in accordance with these specifications. All controllers shall be non-propriety and no special tool, including a hand held testing tool shall be necessary for adjustments or maintenance. The controller vendor shall be able to provide immediate tech support and be able to overnight mail any parts necessary for maintenance.

B. All controller assemblies shall provide efficient, smooth, step-less acceleration and deceleration of the elevator hoistway machine, automatically and irrespective of the load in the car. All control equipment shall be enclosed in a metal cabinet with lockable, hinged, doors and shall be provided with a means of ventilation. All non-conducting metal parts in the machine room shall be grounded in accordance with the NEC.

C. Install modules for the control of each elevator system, including dispatching, signals, door operation, and special operation, in a NEMA Type I, General Purpose Enclosure. Circuit boards shall be moisture-resistant, non-corrosive, non-conductive, fabricated of non-combustible material, and of adequate thickness to support the components mounted thereon. Mounting racks shall be spaced sufficiently apart to prevent accidental contact between individual modules.

D. Design solid state components to operate within a temperature range of 55 degrees F and 90 degrees F.

E. Wiring connections for operating circuits and for external control circuits shall be brought to terminal blocks mounted in an accessible location within the controller cabinet.

Driving Traction Machine

A. Geared Traction Hoist Machine:

1. New VVVF AC motor, refurbish brake, gear, drive shaft, deflector sheave, and gear case mounted in proper alignment on an isolated bedplate.
2. Provide digital, closed-loop velocity encoder.
3. It shall be possible to adjust that rate of acceleration and deceleration after installation is made. The final adjustment shall not produce any objectionable physiological effects on the passengers.
4. The structural design of the motor shall insure perfect alignment of bearings. The rotating elements shall be dynamically balanced to minimize vibration.
5. Refurbish machine brake and set brake to have the capacity to hold the elevator with 125 percent of rated load. Arrange brake circuits so that no current shall be applied to the brake coil prior to the establishment of the hoistway door interlock circuit.
6. Provide hoist machine drip pans to collect lubricant seepage.

Sheaves (Refurbish Existing)

A. Refurbish deflector sheave bearings as needed and re-groove sheave grooves as necessary for proper seating of ropes and balanced ride.

Roller Guides for Car and Counterweight

A. Provide car and counterweight with adjustable roller guides.

B. Each guide shall be of an approved type consisting of not less than three (3) wheels, each with a durable, resilient oil-resistant material tire rotating on ball bearings having sealed-in lubrication. Assemble rollers on a substantial metal base and mount to provide continuous spring pressure contact of all wheels with the corresponding rail surfaces under all conditions of loading operation. Secure the roller guides at top and bottom on each side of car frame and counterweight frame. All mounting bolts shall be fitted with nuts, flat washers, split lock washers, and if required, beveled washers.

C. Minimum diameter of counterweight rollers shall not be less than four (4) inches. Properly balance counterweight frame to equalize pressure on all guide rollers.

D. Minimum diameter of car rollers shall not be less than 150 mm [six (6) inches] unless the six (6) roller type is used. The entire elevator car shall be properly balanced to equalize pressure on all guide rollers. Cars shall be balanced in post-wise and front-to-end directions.

Car and Counterweight Buffers (Reuse Existing)

Reuse the existing but refurbish with new oil (if not spring), and re-sand and paint.

Counterweights (Reuse Existing)

Reuse the existing counterweights.

Hoisting Ropes

A. Provide elevator with the required number and size of ropes to insure adequate traction for the range of loads with a factor of safety not less than that required by ASME A17.1. Hoisting ropes shall be special 8 by 25 traction steel type preformed.

B. Attach a corrosion resistant metal data tag to one hoisting rope fastening of each elevator. Tag shall bear data as required by ASME A17.1 Code.

C. Provide wedge type shackles.

D. Emergency Brake.
1. Provide means to prevent ascending car over-speed and unintended car movement per
   Code.
2. Acceptable emergency brake devices:
   a. BODE Rope Brake
   b. Hollister-Whitney Rope Gripper
3. Mount the auxiliary brake on suitable structural steel supports. Provide a drawing showing the supports, stamped by Professional Engineer verifying the adequacy of the support provided.
4. Provide control circuits to enable the device to function as required by Code.

Governor and Rope

Replace.

Top of Car Inspection Station

A. The device shall be activated by a toggle switch mounted in the device. The switch shall be clearly marked "INSPECTION" and "NORMAL" on the faceplate, with six (6) mm (1/4 inch) letters.

B. Movement of the elevator shall be accomplished by the continuous pressure on a direction button and a safety button.

C. Provide an emergency stop toggle type switch as specified in ASME A17.1.

D. Provide permanent identification for the operation of all components in the device.

E. The device shall be permanently attached to the elevator crosshead on the side of the elevator which is nearest to the hoistway doors.

Emergency Stop Switches

A. Provide each top-of-car device, pit, etc., with emergency stop switches. Mount stop switch on top-of-car in a common fixture with the top-of-car operating device and stop switch in the pit adjacent to pit access door or at top of pit ladder.

B. Each stop switch shall be red in color and shall have its "Identity" and "STOP" and "RUN" positions legibly and indelibly identified.

Car and Hall Fixtures

A. Corridor push button face plates shall be at least 65 mm (2 ½ inches) wide by 200 mm [eight (8) inches] high. The centerline of the landing push button fixtures shall be 1050 mm (42 inches) above the corridor floor.

B. Fasten all car and corridor operating device and signal faceplates with non-corrosive white metal spanner head or Bristol head tamperproof screws.

C. Design car and corridor push button faceplates so that pressure on push buttons shall be independent of pressure on push button contacts.

D. Engraved legends in faceplates shall have lettering six (6) mm (¼ inches) high filled with black paint.

E. Provide one riser of landing call buttons located at ADA required height.

F. Fixtures for intermediate landings shall contain "UP" and "DOWN" buttons. Fixtures for terminal landings shall contain a single "UP" and "DOWN" button.

G. Each button shall contain an integral registration light that shall illuminate upon registration of a call and shall extinguish when that call is answered.

Elevator Car Operating Panels

A. Locate main car operating panel in car enclosure so that the highest passenger use device shall be no more than 1200 mm [four (4) feet] above the finished floor. Locate the alarm bell button at the bottom of the panel with the centerline no less than 875 mm (35 inches) above the finished floor

B. Single flush-mounted panel shall contain:

1. A complete set of illuminated push buttons with a minimum diameter of 25.4 mm [one (1) inch]. Buttons shall have the floor designation indelibly marked on their face using 13 mm (½ inch) characters.
2. Emergency stop key switch.
3. Emergency signal alarm bell button.
4. Key-switch for controlling interior car lighting.
5. Key operated inspection switch that will disconnect normal operation and activate hoistway access switches at terminal landings.
6. Door "OPEN" and door "CLOSE" buttons located below the car buttons. The door "OPEN" button shall be located adjacent to the car door entrance column
7. Key-switch for controlling car ventilating blower.
8. Any other signal lights, switches, or devices required for adjustments and/or maintenance of the elevator.
9. Emergency push to talk button for auto dial system, with perforated speaker pattern in the C.O.P. next to the auto-dialer.

Single Car Selective Collective Automatic Operation

A. Provide single car selective collective automatic operation.

B. Operate car without attendant from push buttons in car and located at each floor. When car is available, automatically start car and dispatch it to floor corresponding to registered car or hall called. Once car starts, respond to registered calls in direction of travel in order floors are reached. Do not reverse car direction, until all car calls have been answered or until all hall calls ahead of car and corresponding to direction of car travel have been answered. Slow car and stop automatically at floors corresponding to registered calls, in the order in which they are approached in either direction of travel. As slow-down is initiated for a hall call, automatically cancel hall call. Cancel car calls in the same manner. Hold car at arrival floor an adjustable time interval to allow passenger transfer. Answer calls corresponding to travel direction of car unless call in the opposite direction is highest or lowest call registered. Illuminate appropriate push button to indicate call registration. Extinguish light when call is answered.

C. When all calls in the system have been satisfied, the elevator shall shut down at the last landing served with the car and hoistway doors closed. Registration of a call at the landing where the car is parked shall automatically open the car and hoistway doors. Provide a predetermined time delay to permit passengers entering the parked car to register the call of their choice and establish direction of travel before the system can respond to landing calls registered to the same time above or below the parked car.

Fire Service

A. Provide fire service as per ASME A17.1. (2007 Edition).

B. Smoke Detectors:

1. Smoke detection devices that are designated for actuation of Elevator Phase I "FIRE SERVICE" response in each elevator lobby, top of hoistway, and machine room, provided by Owner.

    a) Elevator lobby smoke detectors shall activate only the elevators sharing the corresponding or common lobby.
    b) Top of hoistway smoke detection to activate top of hoistway motorized louvered venting.
    c) Any elevator or group of elevators serving separate isolated areas if the same floor shall have an independent smoke detection system.

Car Position Indicator

A. Provide an alpha-numeric LED digital position indicator in main car operating panel, consisting of numerals and arrows not less than 50 mm [two (2) inches] high, to indicate position of car. Indicator faceplate shall be stainless steel. Provide LED illumination only. Locate position indicator in the main car operating panel.

Electric Power Door Operators

A. Provide a high-speed, heavy duty, alternating-current or direct-current, master-type, door operator to automatically open the car and hoistway doors simultaneously when the car is leveling, and automatically close the doors simultaneously at the expiration of the door-timing. Provide solid-state door control with closed loop circuitry to constantly monitor and automatically adjust door operation based upon velocity, position, and motor current. Motor shall be of the high-internal resistance type, capable of withstanding high currents resulting from stall without damage to the motor.

1. It shall not be possible for the doors to open by power unless the elevator is within the leveling zone.
2. Provide infrared curtain unit. The device shall cause the car and hoistway doors to reverse automatically to the fully-open position should the unit be actuated

while the doors are closing, irrespective of all other operating features. The leading edge of the unit shall have an approved black finish.

B. Should the doors be prevented from closing for more than predetermined adjustable interval of 20 to 45 seconds by the interruption or failure of the light rays, the photo-electric door control shall be rendered inoperative and the doors shall close at reduced speed while a nudging buzzer located on the car shall sound.

1. If an obstruction in the sill should not activate the photo-electric door control device and prevent the doors from closing for more than a predetermined adjustable interval of 45 to 90 seconds, the doors shall reverse to the fully open position and reestablish the closing cycle.

C. Provide door "OPEN" and "CLOSE" buttons. When the door "OPEN" button is pressed and held, the doors, if in the open position, shall remain open and if the doors are closing, they shall stop, reverse, and reopen. Momentary pressure of the door "CLOSE" button shall initiate the closing of the doors prior to the expiration of the normal door open time.

Electric Interlocks

A. Equip each hoistway door with new interlock, functioning as hoistway unit system, to prevent operation of car until all hoistway doors are locked in closed position as defined by ASME A17.1.

B. Hoistway door interlock shall not be accepted, unless it has successfully met requirements of Rule 2.12.2.4 of ASME A17.1.

C. Equip car doors with electric contact which prevents operation of car until doors are closed as defined in ASME A17.1 unless car is operating in leveling zone or hoistway access switch is used. Locate door contact to prevent its being tampered with from inside the car. Car door contact shall not be accepted, unless it has successfully met requirements of Rule 2.12.4 of ASME A17.1.

D. Wiring installed from the hoistway riser to each door interlock shall be NEC type (SF-2), or equivalent.

E. Provide devices, either mechanical or electrical, which shall prevent operation of the elevator in event an accident to or defective door operator equipment has permitted an independent car or hoistway door panel to remain in the "unclosed" or "unlocked" position.

Quality Assurance

A. The elevator contractor is a company specializing in manufacturing and installing elevator equipment with not less than five years successful experience.

B. All designs, clearances, construction, workmanship and material, unless specifically excepted, shall be in accordance with the requirements of the ANSI code, handicap accessibility, Americans with Disabilities Act and all codes having legal jurisdiction. The ANSI A17.1 Code shall govern except where codes having legal jurisdiction include more rigid requirements or conflict with the ANSI A17.1 Code.

C. The elevator shall follow design and manufacturing procedures, certified in accordance with International Organization for Standardization (ISO9001-2000) to meet product and service requirements for quality assurance for new products.

Submittals

A. The elevator contractor shall, submit complete working drawings, showing the location of all equipment, loads, and all other information necessary to render a totally functional elevator to the Owner.

B. The elevator contractor shall provide finish samples upon request.

C. The elevator contractor shall provide wiring diagrams.

D. The elevator contractor shall provide Renewal Parts Catalogs and Maintenance Instructions.

Warranty

The elevator contractor shall guarantee the material and workmanship of the equipment installed by him under these specifications and make good any defects not due to ordinary wear or to improper use which may develop within one year after the completion of the installation and acceptance thereof by beneficial use. Warranty date will be established by written document signed by contractor and owner.

Proprietary Information

Any proprietary material, information or data contained in the equipment, or any component or feature thereof, remains the property of the elevator contractor. This includes, but is not limited to, tools, devices, manuals, software, source codes, access codes, object codes, passwords and remote monitoring feature, which is deactivated if elevator contractor maintenance is discontinued.

Maintenance

A. Maintenance will be performed as part of the elevator warranty.

B. Trained employees shall make periodic examinations and perform work including necessary adjusting, greasing, oiling and replacing parts to keep the elevator in operation, except parts that require replacement because of accidents, vandalism, misuse or negligence by parties other than the manufacturer.

C. The elevator contractor shall perform all work under this Agreement, except emergency minor adjustment call-back service, during regular working hours. The elevator contractor shall provide emergency minor adjustment call back service, during regular working hours.

D. Should the owner request that examinations, cleaning, lubrication, adjustments, repairs, replacements or emergency minor adjustment callback service (unless included above) be performed on other than the elevator contractor's regular working hours of his regular working days, the elevator contractor shall absorb the straight time labor charges and the owner shall compensate the elevator contractor for the overtime premium, travel time and expense at his normal billing rates.

PRODUCT / OPERATIONS

Elevator System and Components

A. Elevator Equipment Summary:

Building:	LSUHSC Administration Building
Customer:	Physical Plant and Facility Planning
Location:	Shreveport. LA
Date:	05/14/10
Building Type:	Business Occupancy
Application:	Traction
Service:	General Purpose Passenger - Class A Loading
Quantity:	1
Capacity:	2500 lbs.
Speed:	350 fpm
Travel:	approx. 105 ft. Contractor to confirm.
Landings:	7
Front Openings:	7
Rear Openings:	0
Operation:	Microprocessor Single Car Automatic Operation with Onboard Diagnostic Capabilities
Machine Room:	Penthouse

B. Additional Features:

Anti-Stall Feature
Braille and Audible Signals
Door Open and Close Stall Protection
Emergency Lighting
Firefighter's Service, sensors by Owner
Independent Service Feature
Infrared Light Curtain Door Protection
Overload Sensors
Phase Protection

Start Type: Across the Line
Locking Service Panel in Car Operating Panel
Remote Monitoring Capable
Telephone (ADA compliant)
Voice Annunciation

Cab

A. Cab - existing to remain, but refurbished.

B. Elevator car enclosure wall sections shall be be steel, baked enamel finish with plastic laminate raised panels (existing panels will be removed and re-laminated, finish to be selected by owner).

C. The base, frieze and reveals will be #4 stainless steel.

D. New ceiling shall be suspended with exposed frame with plastic lay-in panels. New lighting shall be fluorescent.

E. Infrared light curtain door protection shall include equip leading edges of car doors with concealed transmitter and receiver infrared beam devices which detect the presence of an object in the process of passing through the hoistway entrance and car doorway. The devise shall use multibeam scanning to detect obstructions in the door opening without any moving parts. The detector device shall prevent the doors from closing, or if they have already started closing, shall cause the doors to reopen and remain open while the object is within the detection zone. Provide a minimum of forty horizontal beams to fill the doorway from ground level to a height of 6 feet.

G. A one speed exhaust fan shall be mounted in cab transom or canopy.

H. A 1/2" x 2" flat bar in brushed aluminum handrail shall be mounted on the rear wall.

I. The threshold shall be extruded aluminum.

J. The cab finish flooring shall be furnished and installed by Owner.

Cab Fixtures

A. The main car operating panel shall be mounted in the return and comply with handicap requirements. Vandal resistant flush mounted pushbuttons that illuminate using long lasting LED's shall be included for each floor served, and emergency buttons and switches shall be provided per code. Switches for car light and accessories shall be provided.

B. The following cab fixtures shall also be provided:

1. Digital Car Position Indicator
2. Locking Service Panel in Car Operating Panel
3. Telephone (ADA compliant)

Hall Fixtures

A. An up button and down button at intermediate floors and a single button at each terminal floor at a height to comply with handicap requirements.

B. Pushbuttons shall illuminate using long lasting LED's.

C. A single hall lantern shall be installed for each elevator entrance. The hall lantern shall be vertically mounted in the building wall, using a box assembly.

D. Position indicator on the first floor.

Execution of Traction Elevator

Scope

A. All installation work shall meet the requirements of ADA Section 4.10. All work required for repairs and completion of a first class installation is responsibility of the Vendor, even if not included in the specifications.

B. No elevators shall be removed from service without prior approval of the Owner.

C. All work shall be expedited. The building will be occupied during the work. Vendor shall protect existing walls, floors, and furnishings. Vendor shall also perform his work in a manner to cause minimum interference with staff.

Storage of Material

Receive and store all material on the job site in the ground floor mechanical room. All transporting and rigging associated with handling of materials shall be the responsibility of the Vendor.

Materials Removed and Not Reused

The Owner shall have priority for the selection of salvaged materials. Any debris or material not retained by the Owner shall become property of the Vendor and shall be removed from the site by him at Vendor's expense.

Performance Guarantee

Should inspections reveal any defects or poor workmanship, any variance or non-compliance with the requirements of these specifications, the re-work and/or repairs shall be completed at no expense to the Owner.

Openings in Fire and Smoke-rated Floors and Walls.

All openings caused by installation of work in fire and smoke walls and all floors, such as thimbles and conduit openings, shall be completely sealed after installation for a completely airtight installation. Seal material shall be fire resistant (with standard ASTM E119 fire test conditions) and shall be noncombustible when tested per ASTM E136. Melt point shall exceed 2000 degrees F per ASTM C24.

Electrical Work

A. The term "wiring" is defined to include the providing of wire, conduit, and miscellaneous materials as required for mounting and connecting the electrical devices.

B. Install a complete wiring system as required for the system. All wiring shall be in conduit except inside control cabinets. New conduit and conductors shall be installed for all new work, except where existing conduit may be reused within the fill and wiring requirements of the NEC. Conceal wiring except in mechanical rooms and areas where other conduit and piping are exposed.

C. Number-code or color-code conductors, appropriately and permanently for identification and servicing of system. Numbers are to match drawings to be furnished.

D. Electric metallic tubing (thin-wall) shall be used for all interior work above grade. Fittings shall be compression type, thread-less. Set screw fittings are not allowed. All conduit and tubing shall be adequately supported using malleable pipe clips or metal framing channel units. Appropriate manufactured supports shall be used to secure conduit in joists or concealed areas. Wire or perforated straps will not be acceptable. Conduit shall be secured to existing cable trays with one hole strap or hanger and bushing where wiring diverges from tray.

E. All power wiring (above 30 volts) shall be in a raceway. Where wiring cannot be concealed, use of surface raceway will be permitted after approval (submit plan for approval). Flexible metal conduit may be used but shall not exceed four (4) feet in length and shall be attached to a permanently mounted junction box at the feed end. Flexible metal conduit may not be used otherwise except where approved by the Owner.

F. The Vendor is to provide all other wire, installation, pulling and tagging of wire, wiring terminations and all associated junction boxes and conduits for a complete installation. Vendor shall install any required power source wiring for equipment installed

G. The Elevator Contractor shall hook up emergency power pre-warn, heat detectors and smoke detectors to the elevator controller wiring terminals. The Elevator Contractor shall provide software in the elevator controls so that heat detectors will actuate elevator cab(s) warning light(s) and alarms(s). Software shall be provided in the microprocessor controller to detect the emergency power pre-warn and bring the car to the next available landing when in transit and hold the car at the landing until emergency power in transferred on or going back to normal power. System shall prevent the stalling of a car in flight when tests are being made on emergency power. Elevator Contractor shall have a trained elevator technician available to assist in the testing of the smoke detectors, shunt trip, Security Car Scanners, emergency power generators, and any other test that may need to be performed in conjunction with the installed elevator system. Smoke detectors are currently tied into the existing elevator controllers. Elevator Contractor shall be required to have adequate personnel on site for the testing of the smoke detectors, heat indicators and shunt trip which shall be installed by others.

Submittals and System Documentation

A. Submittals and system documentation shall occur in three (3) phases and shall follow the following sequence:

1. Submit with bid, any cut sheets, brochures and other documentation required to prove that the equipment proposed to be furnished will meet these specifications. Submittals shall be supported by sufficient descriptive material such as catalogs, application diagrams, charts, and any other data required demonstrating compliance with these specifications. Data shall also state name and address of the nearest service and maintenance organization that regularly stocks repair parts.

2. After bid is awarded, the Vendor shall furnish one (1) copy of parts, service, operation, and troubleshooting manuals covering all new components of the system. Shop drawings shall be prepared that show the proposed wiring routes with location of control panels, car station layout and component locations indicated. Drawings shall be forwarded to the Owner for approval before any work will be allowed to proceed. Three (3) copies of all drawings will be required. Submittals shall include a list of all materials and equipment intended to be provided, electrical wiring drawings, product data sheets, and electrical connection diagrams Drawings shall be complete shop drawings that will be suitable for use as installation drawings. Wiring diagrams shall be provided to indicate all component wiring.

3. At project completion, correct layout and wiring drawings according to actual construction and submit one copy in AutoCAD 2009 format on CD. Furnish three (3) copies of complete service, parts, operation, and troubleshooting manuals for all components. Included shall be all electrical wiring diagrams. Black box diagrams will not be acceptable. Manuals shall include but not be limited to the following:

a) Owner's information manual, containing general data on major components, maintenance, and adjustment.
b) Base software listing (link maps)
c) System logic description
d) Device program tapes
e) Input/Output Sheets
f) Password or code for access to control equipment, troubleshooting equipment, parameter setting data base, diagnostics, on all installed equipment.
g) Complete wiring diagrams as needed for any field troubleshooting in equipment room, shaft or on car.

Permits, Codes, Inspection, Certificates

A. Make application for, secure and pay for all necessary permits and certificates of inspection for all equipment included herein, as required by the various departments of the Local and State Authorities. City of Shreveport permits not required at this site.

B. All work, material, fabrication, design, and equipment shall comply with the requirements, rules, and latest approved practices of the NEC, State of Louisiana, ASME A17.1 Code, and the rules and regulations of the local authorities and all other governing bodies which may have jurisdiction where the equipment is to be installed.

C. Before final acceptance of the work, furnish the Owner certificates of inspection and approval as required by the authorities having jurisdiction. Make tests as specified and as required by the regulations and in the presence of the proper authorities and Owner's representative.

Maintenance

The elevators on which this equipment is to be installed are under an existing maintenance program. The successful Vendor will be required to place it in service in good running order after installation of the new equipment is completed.

Interim Maintenance and Warranty Maintenance

When the elevator(s) is placed back into service (accepted by Owner and meets all safety and load tests), the one (1) year warranty period will begin. The vendor will continue to maintain the elevator for that warranty period. At the conclusion of the

warranty period, the elevator(s) will be placed under the LSUHSC Maintenance and Repair of Vertical Transportation Systems contract.

The Vendor shall maintain a complete orderly; and chronological record file including complete wiring diagrams, original design drawings, complete parts lists, and copies of all reports as required by these specifications a record of all callbacks and repairs shall be kept by the Vendor indicating any difficulty experienced and the corrective measures taken to eliminate these difficulties. The vendor shall provide documentation of difficulties found, corrective measures taken, parts replaced or repaired, adjustments made, etc. for each service call. The Vendor shall review any incomplete complaints with the Owner if same day repair cannot be made. Every two (2) weeks, the Vendor shall furnish documentation of all servicing and preventative maintenance. This report shall include the machine identification, a description of all service performed and the technician's name. Elevators that are in the process of being renovated (not being used) need not receive any preventative maintenance checks.

All servicing, examinations, repairs, and hatchway cleaning shall be performed during regular working hours of regular working days of the elevator trade on all equipment. Twenty-four (24) hour emergency call back is required.

The services to be performed by the Vendor shall be adequate to maintain like new conditions of the elevators. Such services shall consist of furnishing of labor, tools, materials, and equipment necessary to provide complete maintenance of the elevators modified under the scope of this project.

The Vendor shall systematically examine, inspect, service, and perform preventative maintenance on all listed elevators during an inspection every visit every two (2) weeks. During the inspection visit, the Vendor shall clean, adjust, and lubricate the equipment as specified below, determine the nature and extent of any trouble to restore the elevators to satisfactory service and, if the condition warrant furnish and install parts required. The Vendor shall maintain all elevators in compliance with the American Standard Safety Code for Elevators (ASME 17.1).

The Vendor shall be responsible for, but not limited to the following:

1. The Vendor shall maintain the original speed in feet per minute, the original performance time including acceleration and retardation as designed and installed by the elevator manufacturer and to perform the necessary adjustments as required to maintain the original door opening and closing time, within limits of applicable codes.
2. The Vendor shall check the group dispatching systems and make necessary tests and adjustments to insure that all circuits and time settings are properly adjusted, and that the system performs as designed and installed by the original manufacturer.

Installation of Elevator System

A. Components will be arranged in machine room so equipment can be removed for repairs or replaced without dismantling or removing other equipment components.

B. Coordinate elevator work with work of other trades, for proper time and sequence to avoid construction delays.

C. Set entrances in vertical alignment with car openings, and aligning with plumb hoistway lines.

D. Adjust for smooth acceleration and deceleration of car so not to cause passenger discomfort. Adjust doors to prevent opening of doors at any landing on the corridor side unless the car is at rest at that landing, or is in the leveling zone and stopped at that landing. Adjust automatic floor leveling feature at each floor to achieve within ¼" of the landing.

E. Guarding and protecting the hoistway during construction (new and existing). The protection if the hoistway shall include removable solid panels surrounding each hoistway opening at each floor, a minimum of 48" high. Hoistway guards shall be erected, maintained and removed by the Elevator Contractor

Permits and Tests

A. The elevator contractor shall obtain and pay for all necessary Municipal and State permits and relating to the installation of the elevator at his expense, shall make all tests as required by governing codes in effect at the time of the award.

Final Inspections and Tests

Final inspections and tests shall be performed as follows:

TEST NOTIFICATION: When the elevator work included in the contract is fully complete. Prior to scheduling final inspections and tests, a minimum 72 hours written notification, shall be given by Contractor to the Owner, that elevators are ready for final inspection and tests. The Owner shall notify, Elevator Technical Services, Mr. Bobby Jones, phone number (800) 755-8475, fax number (800) 735-3083, email address: ETS023@aol.com to schedule an Elevator Inspector under contract with The State of Louisiana to coordinate the ACCEPTANCE inspections and tests with the Contractor. The Contractor shall be fully responsible to perform all tests and demonstrate the proper operation of all parts and provisions of the equipment.

Contractor shall prove to the satisfaction of Owner and the Elevator Inspector that the elevator, as installed, complies with the requirements of this contract and all applicable requirements of ASME A17.1 – 2007.

INSPECTION PROCEDURE: Perform acceptance inspections and tests in accordance with ASME A17.1 – 8.10.3. The inspection procedure outlined in ANSI A17.2 - 2006 shall form a part of the final inspection. Contractor shall demonstrate that the performance of the elevator as specified has been provided.

TESTING MATERIALS AND INSTRUMENTS: The Contractor shall furnish all test instruments, gauges, and material required for final inspection. Include standard 50-pound test weights, and insulation "Megger" 600 volt, alternating current voltmeter and ammeter; three (03) Celsius calibrated thermometers, spirit level, stopwatch, and a direct reading tachometer.

DIAGNOSTIC TESTING DEVICE: Diagnostic testing device or maintenance terminal suitable for all trouble shooting procedures related to the specific type microprocessor controls and drives installed on this project, shall be provided. This diagnostic testing devices and/or maintenance terminals shall be demonstrated and tested during final testing of the elevator installation. A series of not less than ten simulated malfunctions shall be diagnosed properly by the device. A period of at least 2 hours shall be dedicated to the instruction of its use to the Owner.

1. After successful testing of the diagnostic device in conjunction with the microprocessor controls, the testing device(s) shall become the property of the "The State of Louisiana".
2. The diagnostic testing device(s) shall be equipment to be FULLY maintained by the Elevator Contractor under contract with the "The State of Louisiana".
3. Contractor shall provide Password or Code to access control equipment and drives to the Owner.

4. The Elevator Contractor of this modernization project shall agree to reprogram, refresh, upgrade any handheld diagnostic tool during the life of the elevator equipment as needed at no additional cost to the Owner, regardless of the Elevator Maintenance Contractor. The State of Louisiana prefers built in diagnostic tools that do not expire or need periodic refreshing.
5. The elevator control system can incorporate a built-in remote diagnostic module to relay the constant status of the elevator and control system to a 24 hours 7 days a week central monitoring facility. The remote monitoring device is capable of transmitting information on the current status of the elevator, including any malfunction, system error or shutdown.

FINAL INSPECTION: In addition to any other tests, make the following tests at the time of the final inspection, as follows:

1. TEST PERIOD: Subject elevator to a test for a period of one-hour continuous run, with specified rated load in the car. During the test run, the car shall be stopped at all floors in both directions of travel for a standing period of 10 seconds per floor. Provide a manual test of the final limits (up and down over travel). No component will be permitted to fail.

2. SPEED LOAD TEST: Determine the actual speed of the elevator car, in both directions of travel with the rated load and with no load in the elevator car. Make speed tests before the rated-load test run and also after the rated load test run. Determine speed by applying a tachometer. The actual measured speed of the elevator car with the rated load in the up and down direction shall be within 5 percent of the rated contract speed. The maximum difference in actual measured speeds

obtained under the various conditions outlined shall not exceed 5 percent of the total difference between the "UP" and "DOWN" directions.

3. CAR LEVELING TESTS: Test elevator car leveling devices for accuracy of landing at all floors with no load in the car, symmetrical load in the car, and with the rated load in the car in both directions of travel. Determine accuracy of floor landing both before and after the rated full-load run test. Measure leveling tolerances, using a 1800 mm straightedge laid flat on higher of two surfaces, shall be plus or minus 1/8 inch under ever rated loading condition.
4. INSULATION RESISTANCE TESTS: Complete-wiring systems of the elevator shall be free from short circuits and grounds. The insulation resistance shall be determined by use of a "Megger". Conductors shall have an insulation resistance of not less than one megohm between each conductor and all other conductors.

Warranty and Maintenance Service

Warranty service shall be provided for each elevator for a period of 12 months after date of final acceptance by Owner. The elevator contractor shall furnish maintenance and call back service in accordance with The State of Louisiana Maintenance Specifications and special conditions. Warranty service shall be performed only by trained elevator mechanics and shall include manufacturer's warranty requirements including but not limited to adjusting, lubricating, repairing and cleaning of equipment and furnishing supplies and parts to keep elevators in operation, except parts made necessary by misuse, accident, or negligence not caused by Elevator Contractor. Testing and adjustments shall be in accordance with applicable provisions of ASME A 17.1- 2007 and ASME A 17.2 - 2006. Emergency call back service shall be included and available 8 hours a day, 5 days per week, (normal work week, with response time of two hours or less for a maintenance mechanic to be on site. Inspection and service for fire service and testing, and certification of successful operation shall be provided with each unit. In addition to any warranties that may be available under applicable law. The Elevator Contractor warrants to The State of Louisiana that:

a. All of the Contractor's Work shall be completed in accordance with this Guideline Specification.
b. Any and all machinery, equipment, controls, devices, materials, products and other items incorporated in or otherwise made a part of the Elevator Contractor's Work and/or delivered to The State of Louisiana as part of Contractor's Work will be safe, meet all applicable safety and ASME A17.1 -2007 code standards, and will be free of any defects in design, construction, composition, workmanship, and any other defects.
c. Following Final Completion of all of the Elevator Contractor's Work, the Elevators will perform and continue to perform in accordance with the Specifications, ordinary wear and tear excepted.
d. Repairs and Maintenance. Elevator Contractor agrees that for a period of one (1) year following Final Completion of all of the Contractor's Work, Contractor shall, at no cost and expense to Owner, provide and supply any and all repairs, maintenance, service, labor (including overtime callbacks), equipment, parts, and supplies necessary or appropriate, as requested by Owner, to keep and maintain the Elevators and the controls, monitors, and accessory devices for the Elevators in good repair and working order and performing in accordance with these Specifications, regardless of the cause for the need for such repair or maintenance, except that Contractor will not be responsible for any

repairs or maintenance resulting from abuse of or vandalism to the Elevators or resulting from acts of God, such as lighting, earthquakes, fires, floods or weather of unusual severity such as hurricanes or tornadoes. Contractor's agreement to provide repair, adjustments, test and maintenance to the Elevators as set forth in this Specification shall not be deemed or considered to be, to any extent, a limitation on Contractor's warranty obligations.

e. Sub-standard Performance and materials. If it becomes evident during the Warranty Period that any device or system is not functioning properly or in accordance with specification requirements, or if in the opinion of the Owner, excessive maintenance and attention must be employed to keep device operational, the device(s) shall be removed and a new device meeting all requirements shall be installed as part of work until satisfactory operation for installation is obtained. Warranty Period shall start anew for such parts from date of completion of each new installation performed, in accordance with foregoing requirements.

**** EXHIBIT A ****

INSURANCE REQUIREMENTS FOR CONTRACTORS

Contractor shall procure and maintain for the duration of the contract insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder by the Contractor, his agents, representatives, employees or subcontractors. The cost of such insurance shall be included in the Contractor's bid.

A. MINIMUM SCOPE OF INSURANCE

Coverage shall be at least as broad as:

1. Insurance Services Office Commercial General Liability "occurrence" coverage form CG 00 01 (current form approved for use in Louisiana). **"Claims Made" form is unacceptable.**

2. Insurance Services Office form number CA 00 01 (current form approved for use in Louisiana). The policy shall provide coverage for owned, hired, and non-owned coverage. If an automobile is to be utilized in the execution of this contract, and the vendor/contractor does not own a vehicle, then proof of hired and non-owned coverage is sufficient.

3. Workers' Compensation insurance as required by the Labor Code of the State of Louisiana, including Employers Liability insurance.

B. MINIMUM LIMITS OF INSURANCE

Contractor shall maintain limits no less than:

1. Commercial General Liability: $1,000,000 combined single limit per occurrence for bodily injury, personal injury and property damage.

2. Automobile Liability: $1,000,000 combined single limit per accident, for bodily injury and property damage.

3. Workers Compensation and Employers Liability: Workers' Compensation limits as required by the Labor Code of the State of Louisiana and Employers Liability coverage. Exception: Employers liability limit is to be $1,000,000 when work is to be over water and involves maritime exposure.

C. DEDUCTIBLES AND SELF-INSURED RETENTIONS

Any deductibles or self-insured retentions must be declared to and approved by the Agency. The Contractor shall be responsible for all deductibles and self-insured retentions. At the option of the Agency, the Contractor shall procure a bond guaranteeing payment of losses and related investigations, claim administration and defense expenses.

D. OTHER INSURANCE PROVISIONS

The policies are to contain, or be endorsed to contain, the following provisions:

1. General Liability and Automobile Liability Coverages

   a. The Agency, its officers, officials, employees, Boards and Commissions and volunteers are to be added as "additional insureds" as respects liability arising out of activities performed by or on behalf of the Contractor; products and completed operations of the Contractor, premises owned, occupied or used by the Contractor. The coverage shall contain no special limitations on the scope of protection afforded to the Agency, its officers, officials, employees or volunteers.

b. The Contractor's insurance shall be primary insurance as respects the Agency, its officers, officials, employees, Boards and Commissions or volunteers. Any insurance or self-insurance maintained by the Agency shall be excess and non-contributory of the Contractor's insurance.

b. Any failure to comply with reporting provisions of the policy shall not affect coverage provided to the Agency, its officers, officials, employees, Boards and Commissions or volunteers.

c. The Contractor's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.

2. Workers' Compensation and Employers Liability Coverage

The insurer shall agree to waive all rights of subrogation against the Agency, its officers, officials, employees and volunteers for losses arising from work performed by the Contractor for the Agency.

3. All Coverages

Each insurance policy required by this clause shall be endorsed to state that coverage shall not be suspended, voided, canceled by either party, or reduced in coverage or in limits except after thirty (30) days' prior written notice has been given to the Agency.

E. ACCEPTABILITY OF INSURERS

Insurance is to be placed with insurers with a Best's rating of **A-:VI or higher**. This rating requirement may be waived for workers' compensation coverage only.

F. VERIFICATION OF COVERAGE

Contractor shall furnish the Agency with certificates of insurance affecting coverage required by this clause. The certificates for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. The certificates are to be received and approved by the Agency before work commences. The Agency reserves the right to require complete, certified copies of all required insurance policies, at any time.

G. SUBCONTRACTORS

Contractor shall include all subcontractors as insureds under its policies OR shall furnish separate certificates for each subcontractor. All coverages for subcontractors shall be subject to all of the requirements stated herein.

INDEMNIFICATION AGREEMENT

The _____ agrees to protect, defend, indemnify, save and hold
Contractor/Subcontractor
harmless the University, State of Louisiana, all State Departments, Boards and Commissions, its officers, agents, servants and employees, including volunteers, from and against any and all claims, demands, expense and liability arising out of injury or death to any person or the damage, loss or destruction of any property which may occur or in any way grow out of any act or omission of _____, its agents, servants, and _____
_____ employees or any and all costs,
Contractor/Subcontractor
expense and/or attorney fees incurred by_____, as a result of any
Contractor/Subcontractor
claims demands and/or causes of action except of those claims, demands, and/or causes of action arising out of the negligence of the University, State of Louisiana, all State Departments, Boards, Commissions, its agents, representatives, and/or employees.

_____ agrees to investigate, handle, respond to,
Contractor/Subcontractor
provide defense for and defend any such claims, demand, or suit at its sole expense and agrees to bear all other costs and expenses related thereto, even if it (claims, etc.) is groundless, false or fraudulent.

Accepted by _____
Company Name

Signature _____

Title _____

Date Accepted _____

Is Certificate of Insurance Attached ____Yes____No

Contract No._____for_____

Louisiana State University & A & M College

PURPOSE OF CONTRACT: _____